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The law of alternating generations is therefore no limited principle, strange and anomalous, applying only to a few Radiata. It embraces under its scope the vegetable kingdom, and it is but another instance of identity in the laws of growth in the two great departments of life.—*From Silliman's American Journal of Science and Arts*, No. 30, November 1850.

NOTE ON *Callichthys* AND *Anableps*.

By J. P. G. SMITH, Esq.

The flesh of *Callichthys*, when cooked, is of a fine deep yellow colour, and in substance is somewhat cheesy or buttery on the tongue, it is very rich in flavour: no cleaning of the intestines appears to be necessary before preparation for the table.

In the creeks by which the island of Mexianna is intersected, these fish literally swarm and keep the waters alive and in a state of constant disturbance. I have witnessed them crossing a log of wood, which was lying in the water and intercepted the passage, in such numbers that they quite concealed it from view; and the people, when they wanted a dish, were in the habit of going down to a favourable spot and picking them out with their hands, without going into the water.

Anableps swims in small shoals with the eyes above the surface of the water, generally close to the shore, and so near together that I have shot twenty to thirty at a time by firing a gun among them; their flesh is very sweet, and not unlike a smelt in taste.—*From the Proceedings of the Zoological Society*, March 26, 1850.

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METEOROLOGICAL OBSERVATIONS FOR FEB. 1851.

Chiswick.—February 1. Overcast: fine: clear at night. 2. Rain: hazy: slight fog: frosty. 3. Frosty and foggy: cloudy. 4. Clear: cloudy and fine: clear and frosty. 5. Drizzly. 6. Clear and fine. 7. Rain. 8. Fine: heavy clouds: clear. 9. Cloudy and fine. 10. Hazy. 11. Clear. 12. Very fine. 13. Hazy: cloudy: slight fog. 14. Dense fog: hazy. 15. Foggy: exceedingly fine: frosty. 16. Sharp frost: clear and very fine: frosty. 17. Frosty, with fog: clear: cloudy. 18. Cloudy and fine. 19. Densely clouded. 20. Very fine: rain at night. 21. Hazy: fine: slight fog. 22. Dense fog: very fine: clear at night. 23. Clear and fine. 24. Cloudy: foggy. 25. Foggy. 26. Fine: clear: frosty. 27. Slight shower of sleet: dense dark clouds. 28. Cloudy and cold.

Mean temperature of the month 38°·35
 Mean temperature of Feb. 1850 42 ·60
 Mean temperature of Feb. for the last twenty-five years . 39 ·56
 Average amount of rain in Feb. 1·67 inch.

Boston.—Feb. 1. Fine. 2. Cloudy. 3. Cloudy: rain P.M. 4. Fine. 5. Cloudy: rain P.M. 6. Fine. 7. Cloudy: rain A.M. and P.M. 8—10. Fine. 11—14. Cloudy. 15. Foggy. 16—18. Fine. 19, 20. Cloudy. 21. Fine. 22. Foggy. 23. Fine. 24. Fine: rain P.M. 25. Foggy: rain A.M. 26. Fine. 27. Fine: rain A.M. and P.M. 28. Fine.

Applegarth Manse, Dumfries-shire.—Feb. 1. Frost: snow melting. 2. Frost gentle: pouring P.M. 3. Rain in the night: drizzly day. 4. Frost rather hard: fine: clear. 5. Rain heavy: high wind: flood. 6. Rain in the night: fair day. 7. Rain all day: high wind: flood. 8. Fair and fine A.M.: a few drops P.M. 9. Fog: hoar-frost: cleared P.M. 10. Fair A.M.: rain P.M. 11, 12. Dripping day. 13. Fair throughout. 14. Fair early A.M.: slight drizzle. 15, 16. Shower during night: fine day. 17. Rain A.M.: cleared at noon. 18, 19. Storm of wind and rain. 20. Fair and fine: a few drops P.M. 21. Frost: fine: butterfly seen. 22. Frost harder: barometer falling. 23. Frost mild: barometer falling. 24. Frost slight: fine and clear. 25. No frost: fine: cold P.M. 26. Frost gentle: cloudy. 27. No frost: but ungenial. 28. Frost: clear and fine.—During this month the spring flowers were earlier by three or four weeks than usual: snow-drops, crocuses, hepaticas, polyanthus, daffodils, in full bloom.

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 Average rain in Feb. 2·14 inches.

Sandwich Manse, Orkney.—Feb. 1. Clear: frost: clear: aurora. 2. Bright: frost: cloudy. 3. Bright: clear. 4. Bright: clear: cloudy. 5. Cloudy: rain. 6. Sleet-showers: showers. 7. Rain: showers. 8. Bright: clear. 9. Cloudy: fine: rain. 10. Showers: clear: showers. 11. Bright: showers. 12. Snow-showers: clear: frost. 13. Clear: frost. 14. Drops: showers. 15. Clear: drizzle. 16. Drizzle: clear. 17. Drops: cloudy. 18. Rain: cloudy: aurora. 19. Showers: cloudy: aurora. 20. Showers: sleet-showers. 21. Bright: showers. 22. Clear: aurora. 23. Clear: hoar-frost: fine: aurora. 24. Clear: frost: clear: aurora. 25. Clear: frost: fine: aurora. 26. Cloudy: fine: cloudy. 27. Hoar-frost: cloudy. 28. Showers: cloudy.

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Days of Month.	Barometer.					Thermometer.					Wind.			Rain.		
	Chiswick.		Dumfries-shire.		Boston.	Chiswick.		Boston.	8 $\frac{1}{2}$ a.m.	Dumfries-shire.		Orkney, Sandwick.	Chiswick.	Dumfries-shire.	Orkney, Sandwick.	Days of Month.
	Max.	Min.	9 a.m.	9 p.m.		Max.	Min.			Max.	Min.					
1851.																
Feb.																
1.	29.470	29.424	29.18	29.37	29.25	29.49	29.60	29.81	29.43	29.29	27.40 $\frac{1}{2}$	36.32	34.32	ne.	calm	04
2.	29.575	29.513	29.23	29.53	29.38	29.38	29.66	29.27	40	42	35	37	39	ne.	s.	10
3.	29.567	29.490	29.23	29.17	29.32	29.32	29.15	29.36	44	25	34	42	40	ssw.	w.	06
4.	29.939	29.793	29.45	29.60	29.63	29.63	29.57	29.61	45	23	32	43	40 $\frac{1}{2}$	wnw.	se.	13
5.	29.794	29.508	29.30	29.22	29.08	29.08	29.14	29.00	49	39	41	47	42	ssw.	sw.	14
6.	30.148	29.772	29.36	29.44	29.83	29.48	29.25	29.67	46	25	38	42 $\frac{1}{2}$	40	w.	w.	07
7.	30.171	29.897	29.74	29.60	29.48	29.48	29.22	29.20	49	35	36	48	46	ssw.	sw.	19
8.	30.144	29.856	29.45	29.67	30.08	29.48	29.56	30.11	49	28	43	49	41	wnw.	w.	20
9.	30.375	30.326	30.00	30.22	30.25	30.25	30.14	30.16	51	36	33	41 $\frac{1}{2}$	39	wnw.	w.	152
10.	30.049	30.306	30.03	30.20	30.06	30.06	30.00	29.88	42	23	37.5	44 $\frac{1}{2}$	50 $\frac{1}{2}$	sw.	sw.	02
11.	30.250	30.208	29.87	30.00	29.96	29.96	29.92	29.92	47	23	35	47	45	sw.	w.	20
12.	30.152	30.040	29.70	29.89	29.84	29.84	29.93	30.04	46	27	42.5	44	43	wnw.	se.	02
13.	30.074	30.002	29.63	29.91	29.90	29.90	30.09	29.99	47	34	41.5	41	35	sw.	nne.	06
14.	30.235	30.170	29.84	29.99	30.00	29.99	29.91	29.92	46	27	42	47	38	e.	ssw.	03
15.	30.351	30.270	29.90	30.03	30.04	30.04	29.90	29.98	48	18	37	48	45	w.	sw.	01
16.	30.261	30.166	29.90	30.09	29.96	29.96	30.04	29.90	45	17	29	46	40	ssw.	w.	02
17.	30.112	30.061	29.73	29.73	29.74	29.74	29.56	29.56	47	34	28.5	48	35	calm	sw.	05
18.	30.015	29.965	29.55	29.50	29.43	29.43	29.56	29.14	57	47	44	44 $\frac{1}{2}$	48	sw.	sw.	02
19.	29.911	29.831	29.37	29.43	29.43	29.43	29.20	29.31	54	42	52	51	48	sw.	sw.	44
20.	29.758	29.714	29.27	29.50	29.60	29.60	29.28	29.45	53	35	46	47 $\frac{1}{2}$	40 $\frac{1}{2}$	sw.	wnw.	10
21.	29.911	29.810	29.50	29.73	29.80	29.80	29.68	29.78	48	27	33	37	40	e.	w.	19
22.	30.007	29.937	29.70	29.84	29.80	29.80	29.85	29.89	50	29	31	45	28	calm	w.	06
23.	29.894	29.792	29.64	29.80	29.76	29.76	29.91	29.94	49	31	34	46	35 $\frac{1}{2}$	e.	calm	030
24.	29.766	29.760	29.47	29.70	29.73	29.73	29.93	30.06	53	31	36	47	38 $\frac{1}{2}$	ese.	calm	02
25.	29.947	29.816	29.54	29.82	30.03	30.03	30.20	30.33	53	34	42	44	37	n.	ne.	08
26.	30.326	30.212	29.96	30.30	30.33	30.33	30.43	30.48	44	23	39	37	30 $\frac{1}{2}$	nne.	n.	06
27.	30.363	30.334	30.02	30.36	30.33	30.33	30.51	30.46	45	30	35	42	31 $\frac{1}{2}$	nnw.	n.	06
28.	30.343	30.284	30.05	30.29	30.22	30.22	30.30	30.33	41	26	36.5	43	29	nnw.	nnw.	08
Mean.	30.032	29.938	29.63	29.779	29.803	29.748	29.805	29.805	47.43	29.28	37.2	44.6	35.2	0.89	0.74	3.50